

PATENT ABSTRACTS OF JAPAN

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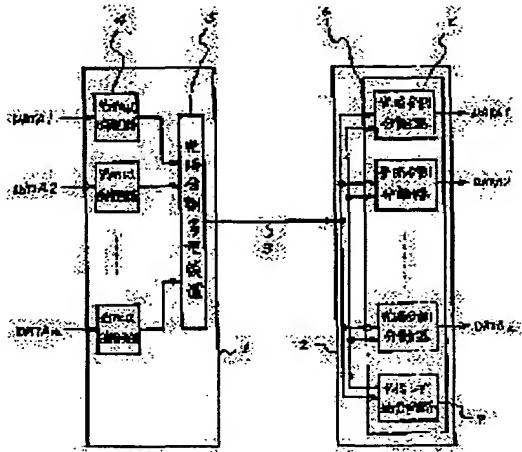
(21)Application number : 09-174139 (71)Applicant : NEC CORP
 (22)Date of filing : 30.06.1997 (72)Inventor : ISHII SATOSHI

(54) OPTICAL TIME DIVISION MULTIPLEXING COMMUNICATION METHOD AND DEVICE THEREFOR

(57)Abstract:

PROBLEM TO BE SOLVED: To stably perform phase synchronization of a frequency dividing clock with a specific channel by making the power of a specific optical signal different among plural optical signals to be transmitted from the power of other optical signals.

SOLUTION: An optical pulse transmitting circuit 4 makes the power of an optical signal of a specific channel different to such degrees as to distinguish it from the power of an optical signal of other channels. An optical time division multiplexing circuit 5 performs optical time division multiplexing of an optical signal that is outputted from each circuit 4 and sends it to an optical fiber transmission line 3. Multiple light which is inputted to an optical receiver 2 is branched by a photo-coupler and sent to an optical time division separating circuit 6. A timing extracting circuit 7 generates a frequency dividing clock that is undergone phase synchronization with a specific channel having different power of an optical signal and sends it to each optical time division separator 6. The circuit 6 controls separation timing to synchronize with the frequency dividing clock. With such operations, it is possible to receive an optical pulse signal of a prescribed channel from an optical time division multiple signal.



LEGAL STATUS

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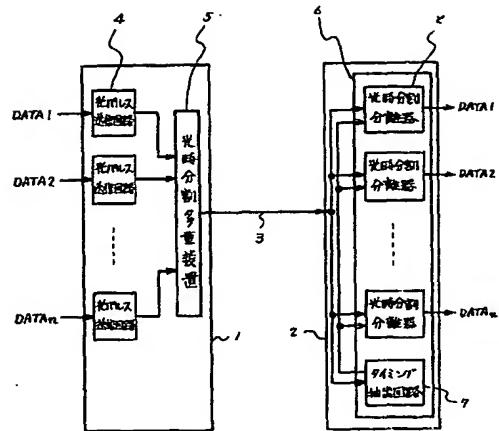
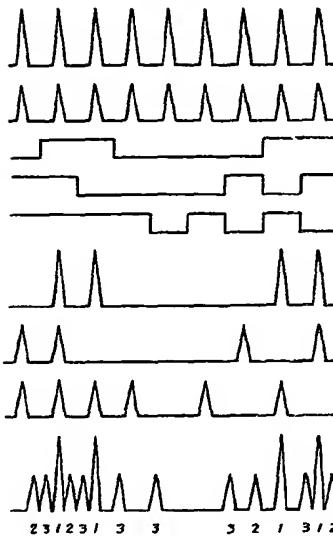
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特開平11-27228

[図1]

(a) 光路切换装置出力
(チャネル1)(b) 光路分割装置出力
(チャネル2, 3)(c) 電気子-1信号
(DATA1)(d) 電気子-2信号
(DATA2)(e) 電気子-3信号
(DATA3)(f) 光パルス信号
(チャネル1)(g) 光パルス信号
(チャネル2)(h) 光パルス信号
(チャネル3)(i) 光路分割
多重信号
(チャネル信号)

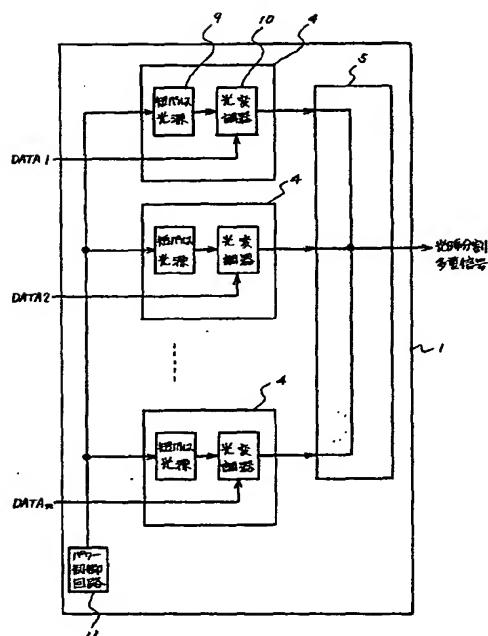
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[図2]

(a) 光路切换装置出力
(チャネル1~2)(b) 電気子-1信号
(DATA1)(c) 電気子-2信号
(DATA2)(d) 電気子-3信号
(DATA3)(e) 光パルス信号
(チャネル1)(f) 光パルス信号
(チャネル2)(g) 光パルス信号
(チャネル3)(i) 光路分割
多重信号
(チャネル信号)